

AMENDMENTS TO THE SPECIFICATION

Please replace Paragraph [0009] with the following paragraph rewritten in amendment format:

~~In one embodiment,~~ A method for registering two-dimensional image data with three-dimensional image data of a body of interest includes acquiring the three-dimensional image data having the first patient orientation information and acquiring the two-dimensional image data having second patient orientation information. The method further includes generating a digitally reconstructed radiograph that substantially corresponds to the two-dimensional image data using the three-dimensional image data and the first and second patient orientation information.

Please replace Paragraph [0010] with the following paragraph rewritten in amendment format:

~~In another embodiment,~~ A method for registering two-dimensional image data with three-dimensional image data of a body of interest includes acquiring the three-dimensional image data and acquiring the two-dimensional image data. The method further includes generating a digitally reconstructed radiograph using the three-dimensional image data and registering the two-dimensional image data with the three-dimensional image data using a first similarity/cost measure and a second similarity/cost measure.

Please replace Paragraph [0011] with the following paragraph rewritten in amendment format:

~~In yet another embodiment,~~ a A method for registering two-dimensional image data with three-dimensional image data of a body of interest includes acquiring the three-dimensional image data of the body of interest and acquiring a two-dimensional image of the body of interest. The method further includes generating a digitally reconstructed radiograph that substantially corresponds to the two-dimensional image, performing intensity adjustment of the two-dimensional image to reduce the effect of an interfering object, and aligning the two-dimensional image with the digitally reconstructed radiograph using a similarity/cost measure.

Please replace Paragraph [0012] with the following paragraph rewritten in amendment format:

~~In another embodiment,~~ a A method for registering two-dimensional image data with three-dimensional image data of a body of interest includes acquiring the three-dimensional image data having first patient orientation information, acquiring a first two-dimensional image having second patient orientation information and acquiring a second two-dimensional image having third patient orientation information. The method further includes identifying a center of the body of interest in the first and second images, generating first and second digitally reconstructed radiographs, identifying the center of the body of interest in the first and second digitally reconstructed radiographs and registering the first and second two-dimensional images with the three-dimensional

image data using at least a first similarity/cost measure and a second similarity/cost measure.